

MILITARY HEALTH SYSTEM COMMON DATA MODEL

NOW LIVE!

WHAT IS THE MHS CDM?

- Standardized data model that organizes and harmonizes MHS data from various sources into a single common vocabulary.
- Designed to standardize the structure and content of observational health data to enable consistent and repeatable analysis.
- Leverages the standard CDM model, Observational Medical Outcomes Partnership (OMOP), maintained by the OHDSI community (<https://www.ohdsi.org>) and used by health care organizations around the world.

KEY FEATURES OF THE MHS CDM

- Resolves discrepancies and complexities in MHS data.
- Enables standardized analytics through consistent data representation.
- Standardizes the format, content, and vocabulary of clinical observational data (i.e., patient encounters, diagnoses, medications, measurements, and procedures).
- Provides 550+ cohorts, 200+ approved queries and standardized vocabulary for medical concepts and relationships.
- Supports clinical, administrative, readiness, public health, and research use cases.

WHO SHOULD USE THE MHS CDM?

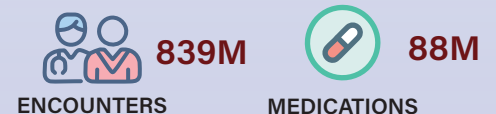
- Analysts are strongly encouraged to leverage the MHS CDM to expedite analysis and data extraction.
- The MHS CDM is typically more effective for large-scale analysis and research of observational data.

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Benefits of the MHS CDM

- Phenotype Definitions
- Query Library
- Medical Codes
- Seamless Data Exchange
- Unified Data Structure

MHS CDM STATS



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OHDSI-OMOP TEAMS channel!

Use code 3undbdx



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WHAT DATA SOURCES HAVE BEEN MAPPED AND HOW?

- MHS CDM 1.0 includes standardized data from MHS GENESIS, TED-I, and TED-NI (Purchased care).
- MHS CDM 2.0 will include legacy data from CHCS/AHLTA, Pharmacy Data Warehouse (PDW), DEERS/DMDC, and operational data from Theater Medical Data Store and Operational Medicine Data Service.
- MHS CDM 3.0 will include further data, such as clinical notes, ITR (immunization), accessions information, patient self-reports, and waivers.
- Data was mapped following OHDSI standards and recommendations. Extensive documentation is available on mapping processes, assumptions, and methodologies. Analysts have access to all documentation, mapping details, and the code used for the mapping.

WHAT TESTING AND VALIDATION HAS BEEN PERFORMED ON THE MHS CDM?

- Conducted functional, technical, and business quality checks.
- Executed more than 2,040 data quality scripts against the CDM before it was promoted to production.
- All findings are available for analysts to review.

HOW FREQUENTLY IS THE MHS CDM UPDATED?

- Monthly, with plans to shift to every two weeks by FY25Q2.
- In the future, certain components may be updated more frequently.

WHAT TRAINING IS AVAILABLE ON HOW TO USE THE MHS CDM?

- Weekly Data Science Lunch and Learn sessions, which includes more than 15 hours of training materials.
- Training materials from the OHDSI community (<https://academy.ehden.eu/>)
- One-on-one training, upon request

WHAT TOOLS OR SOFTWARE WORK WITH THE MHS CDM?

- Currently, SQL or programming languages like Python, R, or others.
- Coming Soon: OHDSI Achilles and ATLAS a web-based tool that facilitates the design and execution of analyses on standardized, patient-level, observational data in the CDM format.

HOW CAN I GAIN ACCESS TO THE MHS CDM?

- Submit an eSAAR requesting access to the 'MIP_OMOPCDM_DADS' RBAC.